Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CW #88: Parallelograms

Geometry

March 1st, 2016

Objective: You will be able to apply properties of parallel lines to solve for missing angles measure of a parallelogram.

|  |  |
| --- | --- |
| 1. Label all angles.  50° | |
| 2. Label all angles  [image] | 3. Label all angles |
| 4. Label all angles | 5. Label all angles |

Objective: You will be able to identify and solve for the base and height of a parallelogram.

|  |
| --- |
| 6. The base and the height of a parallelogram must be\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Draw in the height and label the base.  9in.  50° |

|  |  |
| --- | --- |
| 7. Solve for the height. | 8. Solve for the height. |
| 9. Solve for the height. | 10. Solve for the height.  30 ft.  15 ft. |

You will be able to find the area of a parallelogram.

|  |  |
| --- | --- |
| 11. Find the area of the parallelogram.  9in.  50° | |
| 12. Find the area of the parallelogram. | 13. Find the area of the parallelogram. |
| 14. Find the area of the parallelogram. | 15. Find the value of x if the area of 152 feet squared. |

You will be able to find the perimeter of a parallelogram.

|  |  |
| --- | --- |
| 16. Find the perimeter of the parallelogram.  12in.  9in.  50° | |
| 17. Find the perimeter of the parallelogram. | 18. Find the perimeter of the parallelogram. |
| 19. Find the perimeter of the parallelogram.  http://1.bp.blogspot.com/_Jpm5bX4HPaw/TEIThN5s1MI/AAAAAAAAAW0/bTTL14mwjmE/s400/graph-of-a-rectangle(3).jpg | |

Objective: You will be able to apply diagonal properties of a parallelogram to solve for a missing variable.

|  |  |
| --- | --- |
| 20. Find the value of each variable in the parallelogram. | 21. Find the value of each variable in the parallelogram. |

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HW #88: Parallelograms

Geometry

Due: March 2nd, 2016

Failure to show all work will result in a LaSalle.

|  |  |
| --- | --- |
| 1) Find the value of each variable in the parallelogram. | 2) Find the value of each variable in the parallelogram. |
| 3)  coordinate graph of a squareWhat type of shape do you think this is?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Is this a parallelogram?\_\_\_\_\_\_\_\_\_ Prove it! (Method of your choice)  What is one other property that is true about the side or angle relationships? Show work to demonstrate this. | |
| 4) Find the missing side of a parallelogram if its perpendicular height is 5 cm and its area is 80 cm. Draw a picture. | 5) The height of a parallelogram is 5 ft. more than its base. If the area of the parallelogram is 204 square feet, find its base and height. |
| 6) Find the indicated measure in ABCD below. | 1. *m*∠*AEB* 2. *m*∠*BAE* 3. *m*∠*AED* 4. *m*∠*ECB* 5. *m*∠*BAD* 6. *m*∠*DCE* 7. *m*∠*ADC* 8. *m*∠*DCB* |